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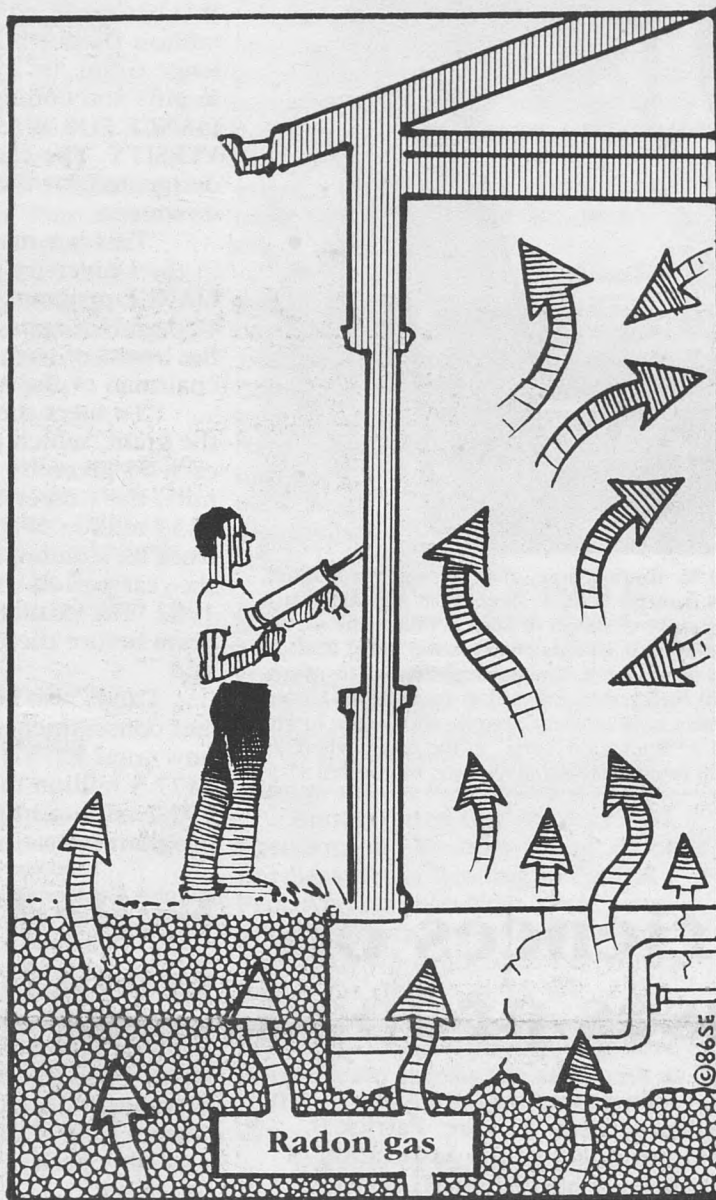
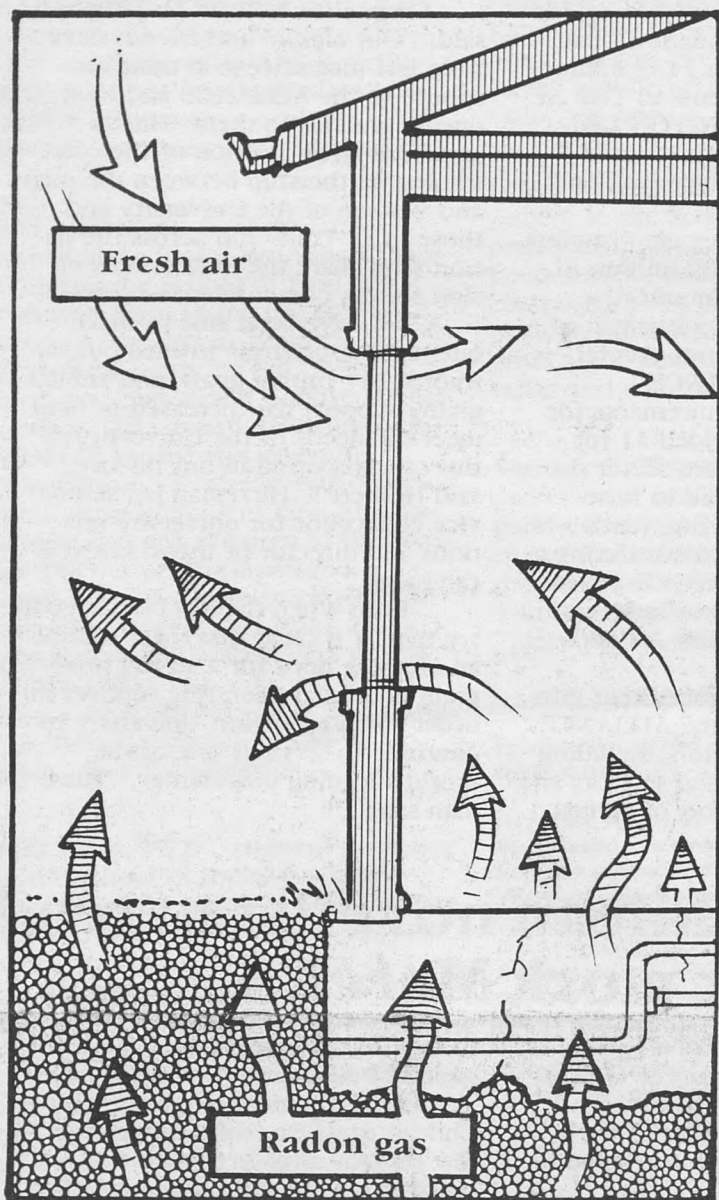


Illustration by Steve Edwards

Radon, a radioactive gas that migrates through the soil, enters homes through cracks in the foundation, pipes and seams in concrete block. A non-weatherized home (illustrated above, left) allows an exchange of indoor air with outside air. An energy-efficient home (above, right) that has been weatherstripped and caulked traps radon inside by reducing the air exchange.

Radon warning: Think before you caulk

Weatherizing may increase lung cancer risk

For over a decade, Americans have waged a cold war. Carrying the banner of energy conservation, we have hunted down leaky windows and loose doors. We have weatherstripped and caulked until our homes are tight as snare drums.

But evidence is mounting that our airtight homes may be more like prisons than secure fortresses. We may be bottling ourselves up with a witches' brew of indoor toxic pollutants.

"Making an average home moderately energy-efficient could more than double the risk of lung cancer from exposure to radon gas. Because of the large population potentially exposed, there is tremendous need for more study to understand the risks involved," says Michael R. Brambley, Ph.D., assistant professor in the departments of Engineering and Policy and Mechanical Engineering.

"Tightening homes increases the concentration of pollutants that originate indoors," he explains. Activities like smoking, cooking and operating unvented kerosene heaters are major contributors. But radon gas — a dangerous and insidious pollutant — comes from the building itself and from the ground on which it is built.

"People really haven't heard

about radon, but it is a major carcinogen and leads the list of the nation's indoor pollutant problems," says Naomi Harley, Ph.D., professor of environmental medicine at New York University School of Medicine.

The Environmental Protection Agency (EPA) estimates radon causes between 10,000 and 20,000 deaths in the United States per year, making it second only to cigarette smoke as a cause of lung cancer. Some recent studies put the annual toll as high as 30,000 deaths.

Brambley believes those figures could become worse as more homeowners retro-fit homes with conservation devices to battle energy costs. "Although many homeowners have taken some conservation measures," he says, "most homes are still not weatherized to the levels usually recommended."

Brambley's is the first study that thoroughly estimates the risk of lung cancer due to energy conservation. The report is scheduled for publication in the June issue of *Energy*, the *International Journal*.

Radon itself is not harmful. It is an inert gas that results from the decay of radium, a radioactive mineral found in trace amounts all over earth's crust. But radon decays into four unstable elements, the so-called

radon daughters. These daughters are not made of sugar and spice; they are radioactive and deadly, and they attach quickly to airborne particles and dust.

Larger dust particles carrying their radioactive cargo settle on the floor and furnishings. Smaller particles are inhaled and lodge in the upper respiratory tract, where they are easily cleared with mucus. Only the smallest particles travel deep within the lung where they are retained for long periods of time. The daughters have half-lives ranging from 26.8 minutes to about a ten-thousandth of a second. Thus they decay inside the respiratory system, releasing alpha-radiation that is absorbed by the lining of the lung. "This is the region where many lung cancers tend to originate," Brambley explains.

Outdoors, radon diffuses into the atmosphere. But radon from soil underneath a home sneaks into living spaces through cracked foundations, pipe entries or seams in concrete block.

Evidence indicates most U.S. homes have airborne radon levels between 0.001 and 0.02 WL (working level — a measurement of radioactivity concentration). Although any exposure to radon involves some risk, a

Continued on p. 3

Gass honored with Book Critics Circle award

William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities, has won the National Book Critics Circle award for the most distinguished work of criticism in 1985.

Gass received the honor for *Habitations of the Word*, a collection of essays on such writers as Emerson, Plato, Joyce and Shakespeare. The book is published by Simon & Schuster.

Nineteen members of the 24-member board of directors met Feb. 17 at the Algonquin Hotel in New York City to select winners in five categories. The other four categories are fiction, biography-autobiography, general nonfiction and poetry. The awards have been presented for the past 11 years by the organization, which is made up of 500 book critics and editors nationwide.

Gass said he learned of the award from the St. Louis Post-Dispatch. "I came home around midnight Monday night (Feb. 17) and had a message on my answering machine to call the Post-Dispatch at any hour. They had received a wire story from the New York Times News Service.

"It is the only award of its kind of any general significance since the National Book Award collapsed," Gass said. His colleague, Stanley L. Elkin, Ph.D., Merle Kling Professor of Modern Letters, received the award for fiction in 1982 for *George Mills*.

Chancellor William H. Danforth said, "The University is extremely proud that a distinguished member of its faculty has been honored with such a prestigious national award. Bill Gass continues to make significant contributions to literature with his original and penetrating analyses."

Frank Kermode's review of *Habitations of the Word* in the March 10, 1985, issue of *The New York Times Book Review*, concluded with the following: "Mr. Gass has a heartwarming respect for authors

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William H. Gass



Presidential greeting: WU sophomore Paul M. Koulogeorge, alias George Washington, greets junior Eric K. Lowenstein in Wohl Center, as students Scott E. Greenspan and Amanda J. Laveson look on. Koulogeorge, Greenspan and Laveson are members of Lock & Chain, the sophomore honorary group that sponsored the "George Washington Birthday Celebration" Feb. 17-21 to honor the University's namesake. In commemoration of the week, Koulogeorge donned his Washington attire to distribute discount coupons in Wohl for items purchased at Fat's Down Under. Other George Washington activities included a birthday bash in The Gargoyle with music by the Ralph Butler Band. The organization also sponsored a "Cherry Pie Tang" at the party, where 20 teams competed to become the fastest pie-eating team (without using silverware, of course).

Films, panel discussion

Blacks' experiences on white campuses probed

The success rate and experiences of black students on predominantly white college campuses will be explored during a film and panel presentation from 7 to 10 p.m. Tuesday, March 4, at Edison Theatre.

The event, titled "Can Blacks Survive on White Campuses?" is free and open to the public.

The films "Black at Yale" and "From Harlem to Harvard" will be shown during the first 90 minutes of the program. Afterwards, a five-member panel composed of educational administrators and a student will examine the success rate of blacks at WU and elsewhere across the nation. A question-and-answer session will follow the discussion.

The panel members, who all are affiliated with WU, are: Patrick B. Hill, president of the Association of Black Students; Victor H. Farwell, assistant dean of the College of Arts and Sciences; Linda B. Salamon, dean of the College of Arts and Sciences; Teta Banks-Stovall, an instructor in the African and Afro-American Studies Program; and James W. Davis, vice chancellor. Adrienne L. Glore, associate director of student activities at the University, will moderate the panel.

The activity is sponsored by the WU Office of Student Affairs. For more information, call the student affairs office at 889-5040.

Evening of poetry, music sponsored by Woman's Club

Carter Revard, Ph.D., professor of English at WU, will read a collection of his poems during "An Evening of Poetry Reading with Music" at 7:30 p.m. Thursday, March 6, in the Women's Building Lounge. The event, which also will feature performances by classical musicians Jeffrey J. Noonan and Barbra Duvall-Holmes, is sponsored by the Woman's Club of WU.

Revard has written many poems, including "Dancing With Dinosaurs" and "The Man Lee Harvey Oswald Missed," which he will read at the event. Part Osage Indian, Revard also is the author of *Ponca War Dancers*, an illustrated book containing more than 30 of his poems.

The program will feature two musical interludes by Noonan and Duvall-Holmes. Noonan, a doctoral candidate in musicology at WU, is a

lutenist and classical guitarist. He has taught and performed across the country and is music director for the Holy Roman Repertory Company at the University. He received a master's degree in music from WU.

Duvall-Holmes is the principal flutist for the University Orchestra and the Wind Ensemble at Southern Illinois University-Edwardsville. In addition to her classical work, she is highly regarded as a jazz vocalist.

The musicians will perform works by several composers, including Heitor Villa-Lobos and Jacques Ibert.

Admission is \$2 at the door for club members and their guests. Reservations are requested by Sunday, March 2. To make reservations, call Coreen Motard at 645-2022 or Phyllis Weidenbaum at 727-8950.

WU Alliance earns challenge grant funds

WU has qualified for a matching \$45 million Danforth Foundation Challenge Grant, by raising \$135 million in gifts and commitments to THE ALLIANCE FOR WASHINGTON UNIVERSITY. The challenge grant is designated for the University's endowment.

"This is a major accomplishment in the University's \$300 million ALLIANCE program," announced George H. Capps, vice chairman of the board of trustees and general chairman of the ALLIANCE.

"To meet the requirements for the grant, which provided \$1 for each \$3 given by private sector donors, the University had to raise \$135 million in qualifying funds from its alumni and friends during a six-year period that began in January 1982. The challenge was met two years before the deadline," Capps said.

Capps also announced that gifts and commitments to the ALLIANCE now total \$275.2 million, including \$177.5 million in capital support and \$97.7 million in support of annual program operations.

Chancellor William H. Danforth said, "Our alumni and friends have been just magnificent in their response to the ALLIANCE and I am deeply grateful to them. This response is an expression of the continuing partnership between the men and women of the University and those in St. Louis and across the nation who share the institution's vision and its commitment to service."

"We have been able to make outstanding progress toward our extraordinary capital goals, and annual giving support has increased to help meet the needs of the University at this crucial period in our history," said Herbert F. Hitzeman Jr., senior vice chancellor for university relations and director of the ALLIANCE campaign.

"Even when the ALLIANCE goals are met, it is clear that there will be an ongoing need for a strong program of annual operating support in order for Washington University to continue to serve as one of the world's leading universities," Hitzeman said.

Exiled Chilean novelist to read from her work March 5

Novelist Isabel Allende will give a reading and commentary at 11 a.m. Wednesday, March 5, in Graham Chapel. The reading, part of the Assembly Series, is free and open to the public.

Allende is the author of *The House of the Spirits*, published in the United States last year. The novel tells a family's history over three generations and, at the same time, describes the history of an unnamed South American nation much like the author's native Chile.

The central characters in *The House of the Spirits* are modeled after Allende's grandparents, in whose home she was raised. Al-

though the book is fiction, it was inspired by Allende's own experiences.

She is the niece of assassinated Chilean President Salvador Allende. A few months after her uncle was killed in a 1973 military coup, Allende and her husband left Chile for Venezuela, where they now live in exile.

She recently has completed a second book, tentatively titled *Of Love and Shadow*. The book, which is being translated into English for publication, is based on the true story of 15 bodies found in an abandoned mine, victims of political persecution.

Sponsors for the lecture are the Assembly Series, the Department of Romance Languages and Literatures, Student Union and Latin American Studies.

For more information, call 889-4620.

West German pianist to give recital

West German pianist Edith Picht-Axenfeld will give a free recital at 8 p.m. Wednesday, March 5, in Graham Chapel. The recital is sponsored by the Goethe Institute St. Louis and the University's music department. This is Picht-Axenfeld's first appearance in St. Louis.

In the recital, Picht-Axenfeld will play Joseph Haydn's Variations in F Minor; Ludwig von Beethoven's Sonata A Major, Op. 101; Heinz Hollinger's "Elis" (Three Night Pieces); Frederic Chopin's Ballade F Minor, Op. 52, and Barcolle F-sharp Major, Op. 60; and Claude Debussy's Images II.

Following the recital, a reception will be held at the Stix International House, 6470 Forsyth Blvd.

Picht-Axenfeld also will teach a master class at 11 a.m. Tuesday,

March 4, in Blewett Hall, Room 103.

The 72-year-old pianist began to play the piano at the age of five. In 1937, she won the International Chopin Competition in Warsaw, Poland. Since 1947, she has been a professor of piano and historic keyboard instruments at the State Academy of Music in Freiburg, West Germany. She is chairman of the European Piano Teacher Association, German section; and a member of the German Music Council.

Picht-Axenfeld has given piano and harpsichord recitals in Europe, Israel, the United States, Japan, Korea, Brazil, Mexico and India. She has recorded for Philips, Duetsche Grammophon, Victor International, Erato and Camerta.

For more information, call 889-5581.

NOTABLES

Roger DesRosiers, dean of the School of Fine Arts, and **Kim Strommen**, associate dean, have been appointed to an advisory committee to study and recommend criteria and policies regarding art in public places in St. Louis. The committee will report to the St. Louis Regional Cultural and Performing Arts Development Commission. DesRosiers is a painter; Strommen, a sculptor specializing in environmental art.

Steve Edwards, Student Life cartoonist and a junior majoring in illustration in the School of Fine Arts, won first place in the cartooning category in national competition sponsored jointly by the College Press Association and College Media Advisers. The award, presented this winter in Dallas, was given for "Fleetwood," Edwards' twice-weekly comic strip in Student Life. The cartoonist also was featured in the October 1985 issue of *Ampersand*, a national magazine supplement for college newspapers. "If I make a cartoon subtle, the readers will pay attention," Edwards says. "If it's provocative, they'll think. If it's original, they'll remember. And if it's funny, they'll come back."

Joel Leon, Ph.D., assistant professor in the school of social work and director of the school's Training Program in Geriatric Case Practice, will serve as editor and co-author of a six-book training series for SAGE Publications, California. The Geriatric Case Practice Training Series will focus on the clinical, administrative and personal/professional skills and knowledge needed by practitioners who work with the elderly and their families. Material for the volumes will come from the school's gerontological training program.

Walter Nord, Ph.D., professor of organizational psychology in the School of Business, co-edited the third edition of *Organizational Reality: Reports From the Firing Line*, recently released by Scott Foresman Publishers.

RECORD

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Medical Campus Employees: Send to: Personnel Office, Campus Box 8091, 4550 McKinley Ave., Washington University, St. Louis, Mo. 63110.

Bernard D. Reams Jr., J.D., Ph.D., professor of law and director of the Freund Law Library, had his dissertation, titled "Research Interactions Between Industry and Higher Education," selected for the 1984-85 Distinguished Dissertation Award by Kappa Delta Pi, an international honor society in education. The award will be presented in Denver, Colo., on April 4, 1986.

Libby Reuter, director of Bixby Gallery in the School of Fine Arts, is president of the newly formed St. Louis Gallery Association. The group, composed of 35 gallery managers, plans to publish a gallery guide three times a year and coordinate gallery walks and educational tours.

Stanley E. Thawley, M.D., associate professor of otolaryngology, recently guest edited the November 1985 issue of *The Medical Clinics of North America*, published by the W.B. Saunders Co. The issue was titled "Sleep Apnea Disorders."

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

Gass—*continued from p. 1*

who live. The most moving parts of his book, I think, are moments when he lingers over a loved sentence or paragraph, perhaps by Rilke or Beckett, Browne or Jeremy Taylor, Joyce or Shakespeare. These are sentences with souls, and therefore alive, with a life not bursting out like a melon from a sack but held forever in its gray paradigms . . . He aspires to such souled sentences himself, and to the construction and study of Gassian world models. It is to that task that he devotes his large reading and his intense, animated, philosophical mind. He is a living author and has splendid aspirations."

Gass joined the WU faculty in 1969 as a full professor. Ten years later, he received his current distinguished professor title.

His work has been included in Martha Foley's *Best American Short Stories* five times since 1959 and in her *Two Hundred Years of Great American Short Stories* anthology in 1976. The Chicago Tribune Writers and Critics Poll named him one of the 10 best Midwest American writers in 1973.

He won an American Academy and Institute of Arts and Letters Award for Fiction in 1975 and its Medal of Merit for Fiction in 1979.

In 1982, he was elected to the American Academy of Arts and Sciences and in 1983, the American Academy and Institute of Arts and Letters.

Radon—*continued from p. 1*

stitute an unacceptable risk has not been established. EPA officials concede, however, that levels about 0.02 generally are considered unsafe.

Indoor radon strength depends on a building's structure and geographic location. The biggest source appears to be the soil itself, although building components also emit the gas: concrete, concrete block, brick, gypsum board and any component made of material from the earth's crust.

Little is known about effective ways to reduce excessive indoor radon concentration. "Sealing cracks and leaks in the basement will help," Brambley says. But other measures, such as basement exhaust systems, have had mixed results. "Reducing indoor radon concentration is a complex problem, and research on remedial methods is still in the early stages," he points out.

"Concentrations of radon are greater in regions where the soil has a higher mineral content than organic content," Brambley continues. Parts of central and northern Florida, for example, where minerals have been left at the surface from phosphate mining, report high radon levels.

Another area that has received attention, the Reading Prong, extends northeast from Reading in central Pennsylvania into New York. Low-grade uranium deposits underlying the area have resulted in radon measurements as high as 15 WL — the highest known level in the nation. EPA estimates continuous exposure to that level carries the same risk as smoking 150 packs of cigarettes per day.

Because of extensive limestone deposits, many Missouri homes may have low radon readings, but extensive monitoring has not been done throughout the state. Even adjoining homes can vary widely in radon concentration, Brambley explains, because the rate at which radon enters a building depends partly on the individual structure. Basement cracks, general building leakiness and drainage systems surrounding the home all affect this rate.

While drafty homes of yesteryear

kept a continuous supply of outdoor air ventilating living spaces, today's energy-efficient homes trap radon inside by reducing exchange of indoor air with outside air.

An average non-weatherized home, says Brambley, may have an air exchange rate of between 0.7 - 1 ACH (air change per hour): an amount of outside air equivalent to 70 to 100 percent of the total inside volume infiltrates the house each hour. With moderate weatherization, this rate can be reduced to about .5 ACH.

But reducing an average home's air exchange rate by half, Brambley cautions, can increase the risk of lung cancer from radon exposure by 115 percent. Making an average house very tight (0.25 ACH) increases risk more than four times. The actual level of risk, however, depends on the radon source strength in an individual home.

Brambley stresses the need for more research on the risks associated with radon. "Making a home tighter, for example, might increase inside air pressure. That in turn could reduce the rate at which radon enters the building. In that case our estimates may be too high." Some studies indicate that radon infiltration is partly pressure-driven, although it is not clear to what degree. "It's my guess that the relationship (of building tightness to the rate at which radon enters) depends on the specific building," Brambley says.

"On the other hand it is important to note that we used the lowest estimates of cancer risk per unit of exposure that we could find in the literature. Using the higher estimates of risk, the number of cancer deaths per million could conceivably be five times as great as our estimates.

"We wanted to say that if we find a problem using the lowest estimates of risk, there is definitely a problem," Brambley says. "Personally, I would think very carefully before I substantially reduced the rate of air exchange in my home because of the possibility of increasing my risk of getting lung cancer as a result."

Robert Brock

Chamber Winds will perform five winning pieces from national contest

The Chamber Winds of WU, in cooperation with the Missouri Historical Society and the New Music Circle, will present the New Music Circle Festival Concert, featuring the winning pieces of the New Music Circle's National Composition Contest.

The Chamber Winds, under the direction of Dan Presgrave, WU applied music instructor, will play five winning compositions at 3 p.m. Sunday, March 2, in the Lionberger Gallery of the Jefferson Memorial Building in Forest Park.

The five winning submissions were selected from among 111 entries. One of the five, "Music for Brass and Percussion," is by St. Louis composer and WU graduate Michael Hunt. Written in 1985, this piece was commissioned for the opening of

downtown's St. Louis Centre.

Other winning selections in the program are "Libere Me Domine" by Peter Ware of Toronto, written for saxophone and percussion; "Threshold" by Arthur Welwood of New Britain, Conn.; "Of Light and Shadow" by Thomas Clark of Denton, Texas, written for wind instruments; and "Nostalgic Sighs" by Ting-Lien Wu of Los Angeles, written for wind and percussion.

The Chamber Winds at WU, a 30-member ensemble, includes musicians from the WU and St. Louis music communities. Tickets will be sold at the door. Admission is \$6 for the general public and \$4 for students, senior citizens and Missouri Historical Society members. For more information, call 889-5581.

CALENDAR

Feb. 27-March 8

LECTURES

Thursday, Feb. 27

2:30 p.m. Dept. of Mechanical Engineering Colloquium. "The Application of Adaptive Mesh Refinement to Shape Optimization of Plate Structures," Mark E. Botkin, research engineer, engineering mechanics dept., General Motors Research Laboratories, Warren, Mich. 100 Cupples II.

4 p.m. Literature and History Program Lecture. "Swift in Ireland," David W. Hayton, reviews editor, *Parliamentary History*, and course tutor, The Open University, Hurst Lounge, Duncker Hall.

4 p.m. Dept. of Anatomy and Neurobiology 11th Annual Mildred Trotter Lecture. "The Macrophage as a Secretory Cell," Zena Werb, prof. of anatomy and cell biology, U. of California School of Medicine at San Francisco. Carl V. Moore Aud., 4580 Scott Ave.

4 p.m. Dept. of Chemistry Seminar. "Photochemical Redox Reactions of Vanadium (II) and Molybdenum (III) Complexes," Andrew Maverick, WU asst. prof. of chemistry. 311 McMillen.

4 p.m. Public Affairs Thursday Series. "Pols, Polls and Parties: An Assessment of Black Politics," Eddie N. Williams, president, Joint Center for Political Studies, Washington, D.C. Eliot 200 C & D.

4 p.m. Dept. of Earth and Planetary Sciences Seminar. "How the Annealing of Fission Tracks Can Be Used to Improve Our Understanding of Geological Material," Charles Naeser, U.S. Geological Survey, Denver, Colo. 102 Wilson.

Friday, Feb. 28

2:30 p.m. Dept. of Engineering and Policy Seminar. "Wind Energy and Its Policy," V. H. Hohenemser, WU prof. emeritus of mechanical engineering. 104 Lopata.

4 p.m. Dept. of Music Lecture Series. "Brahms' Knowledge of Early Music and His Debt to Schutz," Virginia Hancock, WU visiting assistant professor of music. Blewett B-8.

Sunday, March 2

4 p.m. Wesley Foundation Lecture. "Believing Is Seeing," Burton Wheeler, prof. of English and religious studies. 106 Simon.

Monday, March 3

4 p.m. Dept. of Psychology Colloquium. "Programming Saccadic Eye Movement," Richard Abrams, dept. of psychology, U. of Michigan. 102 Eads.

Tuesday, March 4

Noon. WU Medical Center Irene Walter Johnson Rehabilitation Institute Employee Fitness Program Lecture Series. "Nautilus and Weight Training Clinic." Fifth floor track, IWJ Rehabilitation Institute, 509 Euclid Ave.

7 p.m. WU Office of Student Affairs Film and Panel Discussion. "Can Blacks Survive on White Campuses?" Patrick B. Hill, president of the Association of Black Students; Victor H. Farwell, WU asst. dean of the College of Arts and Sciences; Linda B. Salamon, dean of the College of Arts and Sciences; Teta Banks-Stovall, WU instructor in African and Afro-American Studies; and James W. Davis, WU vice chancellor. Adrienne L. Glorie, associate director of student activities, moderates. Edison Theatre.

7:30 p.m. Japan America Society of St. Louis Lecture. "Samurai Lives: Mori Ogai and the Anecdotal Biography," Marvin Marcus, WU instructor of Japanese language and literature. Brown Hall Lounge. Admission is \$3 for society members and \$5 for non-members.

Wednesday, March 5

11 a.m. Assembly Series Reading and Commentary with Isabel Allende, author of *The House of the Spirits*. Also sponsored by Dept. of Romance Languages and Literatures, Student Union and Latin American Studies. Graham Chapel.

3 p.m. African and Afro-American Studies Lecture with Margaret Walker Alexander, author of *Jubilee* and *For My People*, discussing her published works. St. Louis Public Library, 1301 Olive St.

Thursday, March 6

7:30 p.m. WU Woman's Club Poetry Reading. "An Evening of Poetry Reading with Music," Carter Revard, WU prof. of English. Women's Bldg. Lounge. Admission is \$2 for club members and their guests. Reservations are requested by Sun., March 2. To make reservations, call Coreen Motard at 645-2022 or Phyllis Weidenbaum at 727-8950.

Friday, March 7

6 and 8:30 p.m. WU Association Travel Film Lecture Series. "O Canada!" Ken Richter, filmmaker. Graham Chapel. For ticket info., call 889-5122.

Saturday, March 8

11 a.m. University College Saturday Seminar. "Telling Right From Wrong: Morality and Literature," roundtable discussion. Women's Bldg. Lounge.

PERFORMANCES

Thursday, Feb. 27

8 p.m. Inter-Varsity Christian Fellowship Presents Habakkuk, a multimedia event bringing the message of the Biblical prophet forward into the 20th century. Edison Theatre. Tickets are \$2.50 in advance at Edison box office and \$3 at the door.

Saturday, March 1

8 p.m. Edison Theatre Presents Anna Russell, the "crown princess of musical parody." General admission \$15; WU faculty, staff and senior citizens, \$10; and students, \$7. For more info., call 889-6543.



Edison Theatre presents Anna Russell in the St. Louis stop of her farewell tour. The performance is sold out, but 60 tickets will go on sale at 4 p.m. March 1 for seats that will be set up in the rear of the theatre.

MUSIC

Thursday, Feb. 27

8 p.m. Dept. of Music Voice Recital with JoAnne Stephenson, WU graduate student in voice performance. Steinberg Aud.

Friday, Feb. 28

8 p.m. Classical Guitarist Oscar Ghiglia will perform in Graham Chapel. Co-sponsored by the Department of Music and St. Louis Classical Guitar Society. General admission is \$8; students and senior citizens, \$5.

Saturday, March 1

8 p.m. Dept. of Music Senior Honors Recital with Diane White, WU bachelor of arts candidate in music. Steinberg Aud.

Sunday, March 2

3 p.m. WU Chamber Winds Concert. Missouri Historical Society, in the Jefferson Memorial Building in Forest Park.

Wednesday, March 5

8 p.m. Dept. of Music Recital with West German pianist Edith Picht-Axenfeld. Also sponsored by the Goethe Institute of St. Louis. Graham Chapel.

EXHIBITIONS

"Photos by Number: Interplanetary Space Photography." Images obtained through NASA's Regional Processing Lab at WU. Through March 9. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"19th-century Art From the Permanent Collection." Through April 13. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Robert Cottingham: The Barrera-Rosa's Series." Through March 2. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Pierre de Ronsard (1524-1585): An Exhibit of Books and Papers Commemorating the 400th Anniversary of the Poet's Death." Through Feb. 28. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays.

"New York Art Directors Exhibit." March 1-16. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

FILMS

Thursday, Feb. 27

7 and 8:45 p.m. WU Filmboard Series. "Le Jour Se Leve." \$2. Brown Hall.

Friday, Feb. 28

8 and 10 p.m. WU Filmboard Series. "Sixteen Candles." \$2. Brown Hall. (Also Sat., March 1, same times, and Sun., March 2, at 7 p.m., Brown.)

Midnight. WU Filmboard Series. "Blade Runner." \$2. Brown Hall. (Also Sat., March 1, same time, and Sun., March 2, at 9 p.m., Brown.)

Monday, March 3

7 and 9 p.m. WU Filmboard Series. "Kind Hearts and Coronets." \$2. Brown Hall. (Also Tues., March 4, same times, Brown.)

MISCELLANY

Friday, Feb. 28

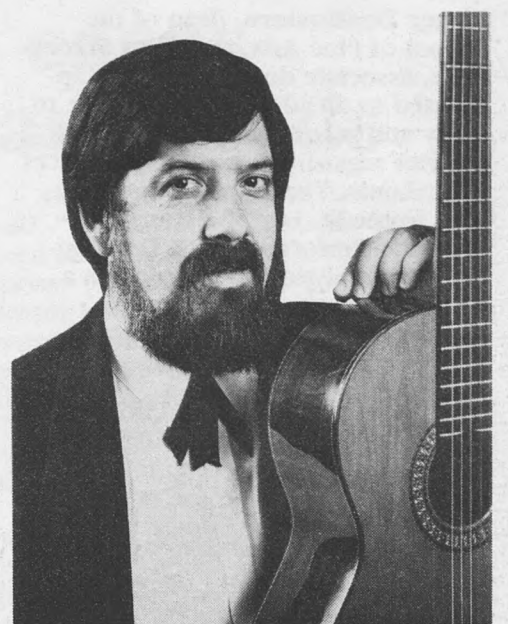
7:30 p.m. Inter-Varsity Christian Fellowship Meeting. "Where is the God of Heaven?" Rev. George Stulac, pastor of Memorial Presbyterian Church. Green Stuffs Line, Wohl Center.

Saturday, March 1

9 a.m.-noon. University College Workshop. "Changing Jobs — Changing Careers," Ellen Krout, career counselor, WU Career Planning and Placement Services. (Continues March 8 and 15, same time.) Registration fee \$45. For registration info. and class location, call 889-6788.

Sunday, March 2

1-4 p.m. Classical Guitarist Oscar Ghiglia conducts a master class in Blewett B-8. Sponsored by the St. Louis Classical Guitar Society. For info., call 889-5581.



Guitarist Oscar Ghiglia will perform in Graham Chapel at 8 p.m. Feb. 28. Tickets are \$8 and \$5 for students.

Monday, March 3

9-11 a.m. Personal Computing Education Center Short Course 330. "Microcomputing — Using Spreadsheets," David Benson, director of PCEC. (Also March 4 and 5, same time.) Free to WU community. To register, call 889-5813.

10-11 a.m. Personal Computing Education Center Short Course 301. "Advanced JCL," Sara Johnson. (Also March 4-7, same time.) Free to WU community. To register, call 889-5813.

5:30 p.m. Gay and Lesbian Community Alliance Meeting. 125 Prince.

Tuesday, March 4

11 a.m. Dept. of Music Master Class with West German pianist Edith Picht-Axenfeld. 103 Blewett. For more info., call 889-5581.

1-2 p.m. Personal Computing Education Center Short Course 001. "Introduction to Computing Facilities," Brian Sher. Free to WU community. To register, call 889-5813.

7 p.m. Society for International Development Meeting. Eugene B. Schultz Jr., WU prof. of engineering and applied science, will speak on careers in international development. Stix International House, 6470 Forsyth Blvd.

Thursday, March 6

1-3 p.m. Personal Computing Education Center Short Course 002. "Computing Basics," Karen Sanders, computer specialist. Free to WU community. To register, call 889-5813.

Calendar Deadline

The deadline to submit items for the March 20-29 calendar of the *Washington University Record* is March 6. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.

University contribution

The Personnel Office has announced that the University contribution toward the cost of any University health or dental insurance plan will increase from \$75 to \$80 for full-time employees and from \$37.50 to \$40 for eligible part-time employees, effective July 1, 1986. The new allowance will appear on the final paycheck for July.